| | | | | | | |
|---|---|---|---|---|---|---|
| 8 | RCC(M20) | Compressive Strength(7days and 28days) | 4 set /31-50 cum | 50.68 | 8 | 8 |
| 9 | Cement Concrete Pavemet (M30) | Compressive Strength(7days and 28days) | 8 set /200-250 cum | 211.79 | 16 | 16 |
| 10 | GSB | SIEVE ANALYSIS | One Test | | 1 | 1 |
| 11 | WMM | Sieve Analysis | One Test | | 1 | 1 |
| | | Impact Value | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| 12 | DBM | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | STRIPPING VALUE | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | IMPACT VALUE | One Test | | 1 | 1 |
| | | Specific gravity | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Marshal Stability | One Test | | 1 | 1 |
| | | Marshal flow | One Test | | 1 | 1 |
| | | Percent air Voids | One Test | | 1 | 1 |
| | | Percent Voids in mineral Aggregate | One Test | | 1 | 1 |
| | | Percent Voids filled with Bitumen | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Gradation | One Test | | 1 | 1 |
| 13 | BC | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | STRIPPING VALUE | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | IMPACT VALUE | One Test | | 1 | 1 |
| | | Specific gravity | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Marshal Stability | One Test | | 1 | 1 |
| | | Marshal flow | One Test | | 1 | 1 |
| | | Percent air Voids | One Test | | 1 | 1 |
| | | Percent Voids in mineral | One Test | | 1 | 1 |
| | | Percent Voids filled with Bitumen | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Gradation | One Test | | 1 | 1 |
| 14 | BITUMEN | Ductility | One Test | | 1 | 1 |
| | | Softening Point | One Test | | 1 | 1 |
| | | Penetration | One Test | | 1 | 1 |
| | | Flash Point | One Test | | 1 | 1 |
| | | Fire Point | One Test | | 1 | 1 |
| 15 | TACK COAT | Rate of spread | One Test | | 1 | 1 |

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

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Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 04-02-23

| | | |
|---|---|---|
| Lab ID | : | CP-2023-04-11-10 |
| Customer | : | Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Sub Division, BBMP, Bangalore. |
| Project Name | : | "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division" |
| Agency | : | Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045 |
| Customer's Reference | : | BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 01-02-23 |
| Sample Type | : | Birla Super 53grade |
| Reference to BIS codes | : | IS 269:2015 Ordinary Portland cement Specification ,<br>IS 4031 (Part 4,5):1988<br>IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6<br>IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6 |
| Date of test | : | 02-02-23 |
| Environmental Conditions during test | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 269:2015 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.65 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 296.7 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.12 | – |
| 4 | Standard Consistency (%) | 28.5% | Not specified |
| 5 | Initial Setting time | 145 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 295 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 2mm | Not more than 10 mm |

* The results obtained are satisfactory as per standard requirements.

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore



****End of Report****

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/02/2023

| | | |
|---|---|---|
| Lab ID | : | CP-2023-04-11-10 |
| Customer | : | Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Sub Division, BBMP, Bangalore. |
| Project Name | : | "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division" |
| Agency | : | Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045 |
| Customer's Reference | : | BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 15-02-23 |
| Customer ID | : | Drain Bottom Slab Concrete |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 20/02/2023 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 13/02/2023 | 20/02/2023 | 149.88 X 150.62 X 149.96 | 22576 | 8.519 | 417.0 | 18.5 | 18.6 |
| 2 | Drain Bottom Slab Concrete | M20 | 13/02/2023 | 20/02/2023 | 151.70 X 150.41 X 150.89 | 22817 | 8.267 | 421.3 | 18.5 | |
| 3 | Drain Bottom Slab Concrete | M20 | 13/02/2023 | 20/02/2023 | 151.67 X 151.78 X 151.61 | 23020 | 8.325 | 436.3 | 19.0 | |

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/03/2023

| | | |
|---|---|---|
| Lab ID | : | CP-2023-04-11-10 |
| Customer | : | Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Sub Division, BBMP, Bangalore. |
| Project Name | : | "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division" |
| Agency | : | Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045 |
| Customer's Reference | : | BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 06-03-23 |
| Customer ID | : | Cement Concrete Pavement |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M30 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 10/03/2023 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 03/03/2023 | 10/03/2023 | 151.14 X 149.60 X 151.65 | 22610 | 8.155 | 567.9 | 25.1 | 25.4 |
| 2 | Cement Concrete Pavement | M30 | 03/03/2023 | 10/03/2023 | 151.12 X 150.03 X 151.01 | 22672 | 8.197 | 604.4 | 26.7 | |
| 3 | Cement Concrete Pavement | M30 | 03/03/2023 | 10/03/2023 | 150.39 X 149.44 X 151.87 | 22473 | 8.392 | 552.1 | 24.6 | |

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Quality Manager


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# TEST RESULTS OF GRADATION FOR DBM
## (IS 2386:(Part 1) 1963 (RA2011)

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-RW-2023-04-11-10** | **Date: 18-03-23** |
| **Customer** | : | Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore. | |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. | |
| **Project Name** | : | "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division" | |
| **Agency** | : | Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045 | |
| **Customer Reference** | : | BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 16-03-23 | |
| **Type of Mix** | : | DBM-Plant (Dense Bituminous Macadam) | |
| **Date of Test** | : | 16-03-23 | |
| **Weight of Sample** | : | 5000 Grams | |

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Specification Limits as per MORTH specification Table 500-10 (grading -2) |
|---|---|---|---|---|---|
| 37.5 | 0 | 0 | 0 | 100 | 100 |
| 26.5 | 250 | 250 | 5.00 | 95.00 | 90-100 |
| 19 | 350 | 600 | 12.00 | 88.00 | 71-95 |
| 13.2 | 450 | 1050 | 21.00 | 79.00 | 56-80 |
| 4.75 | 1750 | 2800 | 56.00 | 44.00 | 38-54 |
| 2.36 | 400 | 3200 | 64.00 | 36.00 | 28-42 |
| 0.3 | 1350 | 4550 | 91.00 | 9.00 | 7-21 |
| 0.075 | 250 | 4800 | 96.00 | 4.00 | 2-8 |
| PAN | 200 | 5000 | 0.00 | 0 | 0 |

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# TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
## IS 2386 (Part 1) 1963 (RA 2011 )

Date: 01-04-23

| | | |
|---|---|---|
| Lab ID | : | CP-RW-2023-04-11-10 |
| Customer | : | Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Sub Division, BBMP, Bangalore. |
| Project Name | : | "Improvemets to Roads Drains at Srinivasapura Village in Ward No:01 of Yelahanka Sub Division" |
| Agency | : | Sri K Shankar Reddy, Ramachanrappa layout #31st Cross, 1st Main Arabic College Post, Veeranna Palya, Bangalore-560045 |
| Customer Reference | : | BBMP/EE/YNK.D/EPMT-13/W.O/ /2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Date of Receipt | : | 31-03-23 |
| Type of Mix | : | BC (Bituminous Concrete) |
| Date of Test | : | 31-03-23 |

| Sl.no | Description | Index | Trail 1 | Trail 2 |
|---|---|---|---|---|
| 1 | Weight of the Sample | W1 | 500 | 500 |
| 2 | Weight of the sample After extraction | W2 | 475 | 474.5 |
| 3 | Initial weight of Paper | W3 | 4 | 4 |
| 4 | Final weight of Paper | W4 | 6 | 5.8 |
| 5 | Increase in weight of Filter Paper | W5=W4-W3 | 2 | 1.8 |
| 6 | Bitumen percentage | $\frac{W1-W2+W5}{W1}$ X 100 | 5.40 | 5.46 |
| 7 | Average percentage | % | 5.43 | |

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

A.E.E